September 29, 2010

MEMORANDUM TO: William D. Reckley, Chief
Advanced Reactor Branch 1
Office of New Reactors

FROM: Joseph F. Williams, Senior Project Manager ***/RA/***
Advanced Reactor Branch 1
Office of New Reactors

SUBJECT: SUMMARY OF SEPTEMBER 1-2, 2010 MEETING REGARDING NEXT GENERATION NUCLEAR PLANT HIGH TEMPERATURE MATERIALS, FUEL QUALIFICATION, AND MECHANISTIC SOURCE TERM

On September 1-2, 2010, representatives of the Department of Energy (DOE) and Idaho National Laboratory (INL) met with the Nuclear Regulatory Commission (NRC) staff to discuss white papers addressing issues associated with design of the Next Generation Nuclear Plant (NGNP). A list of meeting attendees is attached as an enclosure to this memo. A copy of the DOE/INL presentation may be found in ADAMS at accession number ML102590247.

INL staff reviewed the status of the NGNP project, describing plans for upcoming submittals and their relationship to the project plan.

The bulk of the presentation on September 1 focused on the white paper submitted on June 25, 2010, (ADAMS accession number ML101800221). On September 2, INL made presentations describing white papers on NGNP fuel qualification and mechanistic source term, which were the subject of two submittals dated July 21, 2010, ADAMS accession numbers ML102040260 and ML102040261, respectively. The INL presentations were intended to assist NRC staff's understanding of the three submittals, facilitating the staff's review.

Each submittal describes a set of outcome objectives. The NRC staff's assessment of these topics will focus on these objectives to help inform upcoming NGNP design and testing activities. The assessment may also identify other items which the staff believes may be beneficial to future NGNP licensing reviews.

Project No. 748

Enclosure:
As stated

CONTACT: Joseph Williams, NRO/ARP/ARB1
(301) 415-1470

September 29, 2010

MEMORANDUM TO: William D. Reckley, Chief
Advanced Reactor Branch 1
Office of New Reactors

FROM: Joseph F. Williams, Senior Project Manager ***/RA/***
Advanced Reactor Branch 1
Office of New Reactors

SUBJECT: SUMMARY OF SEPTEMBER 1-2, 2010 MEETING REGARDING NEXT GENERATION NUCLEAR PLANT HIGH TEMPERATURE MATERIALS, FUEL QUALIFICATION, AND MECHANISTIC SOURCE TERM

On September 1-2, 2010, representatives of the Department of Energy (DOE) and Idaho National Laboratory (INL) met with the Nuclear Regulatory Commission (NRC) staff to discuss white papers addressing issues associated with design of the Next Generation Nuclear Plant (NGNP). A list of meeting attendees is attached as an enclosure to this memo. A copy of the DOE/INL presentation may be found in ADAMS at accession number ML102590247.

INL staff reviewed the status of the NGNP project, describing plans for upcoming submittals and their relationship to the project plan.

The bulk of the presentation on September 1 focused on the white paper submitted on June 25, 2010, (ADAMS accession number ML101800221). On September 2, INL made presentations describing white papers on NGNP fuel qualification and mechanistic source term, which were the subject of two submittals dated July 21, 2010, ADAMS accession numbers ML102040260 and ML102040261, respectively. The INL presentations were intended to assist NRC staff's understanding of the three submittals, facilitating the staff's review.

Each submittal describes a set of outcome objectives. The NRC staff's assessment of these topics will focus on these objectives to help inform upcoming NGNP design and testing activities. The assessment may also identify other items which the staff believes may be beneficial to future NGNP licensing reviews.

Project No. 748

Enclosure:
As stated

CONTACT: Joseph Williams, NRO/ARP/ARB1
(301) 415-1470

DISTRIBUTION:

PUBLIC	MMayfield	WReckley	SMagruder	JWilliams	TZaki
SRubin	NRay	RidsNROArpArb1_2	RidsNroOd	RidsNroArp	SBasu

ADAMS ACCESSION NUMBER: ML102700497 NRO-002

OFFICE	NRO/ARP/ARB1	NRO/ARP/ARB1
NAME	JWilliams	WReckley
DATE	9/29/10	9/29/10

OFFICIAL RECORD COPY

Attendees
Next Generation Nuclear Plant, Public Meeting
High Temperature Materials
September 1, 2010

Name	Affiliation
George Honma	BEA/INL
Steven Reeves	DOE
Madeline Feltus	DOE/NE
Janelle Zamore	DOE/NE
Dane Wilson	DOE/ORNL
Gary Mays	DOE/ORNL
Peter Pappano	DOE/ORNL
Kahtan Jabbour	Jabbour & Associates
Farshid Shahrokhi	NGNP/AREVA
Lew Lommers	NGNP/AREVA
John Bolin	NGNP/GA
David Alberstein	NGNP/INL
David Petti	NGNP/INL
James Kinsey	NGNP/INL
Larry Demick	NGNP/INL
Mark Holbrook	NGNP/INL
Pete Lowry	NGNP/INL
Richard Wright	NGNP/INL
Robert Bratton	NGNP/INL
Will Windes	NGNP/INL
Don Dube	NRC/NRO
Arlon Costa	NRC/NRO/ARP
Bill Reckley	NRC/NRO/ARP
Don Carlson	NRC/NRO/ARP
Joe Williams	NRC/NRO/ARP
Thomas Boyle	NRC/NRO/ARP
Thomas Kenyon	NRC/NRO/ARP
Tom Kevern	NRC/NRO/ARP
Abdul Kazi	NRC/NRO/DE
Joel Jenkins	NRC/NRO/DE
Neil Ray	NRC/NRO/DE
Sunwoo Park	NRC/NRO/DE
Syed Haiden	NRC/NRO/SBCV
Pete Lee	NRC/NSIR/DSP
Stuart Rubin	NRC/RES
Louri Prokofiev	NRC/RES/DE
Shah Malik	NRC/RES/DE
Sud Basu	NRC/RES/DSA
Scott Penfield	Technology Insights
Sten Caspersson	Westinghouse

Attendees
Next Generation Nuclear Plant
Fuel Qualification and Mechanistic Source Team
September 2, 2010

Name	Affiliation
Steven Reeves	DOE/Gas Reactors
Madeline Feltus	DOE/NE
Janelle Zamore	DOE/NE
Gary Mays	DOE/ORNL
Peter Pappano	DOE/ORNL
John Saurwein	General Atomics
Farshid Shahrokhi	NGNP/AREVA
Lew Lommers	NGNP/AREVA
David Hanson	NGNP/GA
John Bolin	NGNP/GA
David Alberstein	NGNP/INL
David Petti	NGNP/INL
George Honma	NGNP/INL
James Kinsey	NGNP/INL
Jim Kendall	NGNP/INL
Mark Holbrook	NGNP/INL
Pete Lowry	NGNP/INL
Richard Hobbins	NGNP/INL
Chris Van Wert	NRC/NRO
Jay Lee	NRC/NRO
Michelle Hart	NRC/NRO
Arlon Costa	NRC/NRO/ARP
Bill Reckley	NRC/NRO/ARP
Donald Carlson	NRC/NRO/ARP
Eric Powell	NRC/NRO/ARP
Joe Williams	NRC/NRO/ARP
Thomas Boyle	NRC/NRO/ARP
Tom Kevern	NRC/NRO/ARP
Neil Ray	NRC/NRO/DE
Andret Drozo	NRC/NRO/DSRA
David Diec	NRC/NSIR
Pete Lee	NRC/NSIR/DSP
John Voglewede	NRC/RES
Stuart Rubin	NRC/RES
Sud Basu	NRC/RES/DSA
Steven Mirsky	NuScale Power
Sten Caspersson	Westinghouse